Hearing Research, 27 (1987) 273–274
Elsevier

Author Index

Anderson, C.B., see Santi, P.A., 47
Angelborg, C., Slepecky, N., Larsen, H.C. and Söderberg, L.
Colored microspheres for blood flow determinations twice in the same animal (*Short Communication*), 265
Arehole, S., Salvi, R.J., Saunders, S.S. and Henderson, D.
Evoked response 'forward masking' patterns in chinchillas with temporary hearing loss, 193
Ashmore, J.F., see Pitchford, S., 75

Barkway, C., see Steel, K.P., 11
Beck, M.M., see Jones, T.A., 67
Bock, G.R., see Steel, K.P., 11
Brown-Borg, H.M., see Jones, T.A., 67
Burger, R.E., see Jones, T.A., 67

Cartee, C., see Kraus, N., 165
Cole, K.S., see Robertson, D., 177
Colon, E.J., see Rotteveel, J.J., 85
Colon, E.J., see Rotteveel, J.J., 95
Colon, E.J., see Rotteveel, J.J., 245
Corbett, K., see Robertson, D., 177

De Graaf, R., see Rotteveel, J.J., 95
De Graaf, R., see Rotteveel, J.J., 245

Fechter, L.D., Thorne, P.R. and Nuttall, A.L.
Effects of carbon monoxide on cochlear electrophysiology and blood flow, 37

Hari, R., see Mäkelä, J.P., 257
Henderson, D., see Arehole, S., 193
Hillerdal, M.
Cochlear blood flow in the rat. A methodological evaluation of the microsphere method, 27

Jen, P.H.-S., see Sun, X., 207
Jones, T.A., Beck, M.M., Brown-Borg, H.M. and Burger, R.E.
Far-field recordings of short latency auditory responses in the White Leghorn chick, 67

Kraus, N., Smith, D.I., McGee, T., Stein, L. and Cartee, C.
Development of the middle latency response in an animal model and its relation to the human response, 165
Kraus, N., see Smith, D.I., 157

Larsen, H.C., see Angelborg, C., 265
Linnankivi, A., see Mäkelä, J.P., 257

Machino, M., see Tachibana, M., 239
Maekawa, M.
Auditory responses in the nucleus basalis of the pigeon, 231
Mäkelä, J.P., Hari, R. and Linnankivi, A.
Different analysis of frequency and amplitude modulations of a continuous tone in the human auditory cortex: A neuromagnetic study, 257
McGee, T., see Kraus, N., 165
Mizukoshi, O., see Tachibana, M., 239
Møller, A.R., see Rees, A., 129
Morioka, H., see Tachibana, M., 239

Nuttall, A.L.
Techniques for the observation and measurement of red blood cell velocity in vessels of the guinea pig cochlea, 111
Nuttall, A.L.
Velocity of red blood cell flow in capillaries of the guinea pig cochlea, 121
Nuttall, A.L., see Fechter, L.D., 37
Nuttall, A.L., see Thorne, P.R., 1

Pitchford, S. and Ashmore, J.F.
An electrical resonance in hair cells of the amphibian papilla of the frog *Rana temporaria*, 75

Rees, A. and Møller, A.R.
Stimulus properties influencing the responses of inferior colliculus neurons to amplitude-modulated sounds, 129
Robertson, D., Cole, K.S. and Corbett, K.
Quantitative estimate of bilaterally projecting medial olivocochlear neurones in the guinea pig brainstem (*Short Communication*), 177
Rotteveel, J.J., Colon, E.J., Stegeman, D.F. and Visco, Y.M.
The maturation of the central auditory conduction in preterm infants until three months post term. IV. Composite group averages of the cortical auditory evoked responses (ACRs), 85
Rotteveel, J.J., De Graaf, R., Stegeman, D.F., Colon, E.J. and Visco, Y.M.
The maturation of the central auditory conduction in preterm infants until three months post term. V. The auditory cortical response (ACR), 95
Rotteveel, J.J., Stegeman, D.F., De Graaf, R., Colon, E.J. and Visco, Y.M.
The maturation of the central auditory conduction in preterm infants until three months post term. III. The middle latency auditory evoked response (MLR), 245
Ryan, A.F., see Wang, Z.-X., 145

Salvi, R.J., see Arehole, S., 193

0378-5955/87/$03.50 © 1987 Elsevier Science Publishers B.V. (Biomedical Division)

Santi, P.A. and Anderson, C.B.
A newly identified surface coat on cochlear hair cells, 47
Saunders, S.S., see Arehole, S., 193
Slepecky, N., see Angelborg, C., 265
Smith, D.I. and Kraus, N.
Postnatal development of the auditory brainstem response (ABR) in the unanesthetized gerbil, 157
Smith, D.I., see Kraus, N., 165
Söderberg, L., see Angelborg, C., 265
Steel, K.P., Barkway, C. and Bock, G.R.
Strial dysfunction in mice with cochleo-saccular abnormalities, 11
Stegeman, D.F., see Rotteveel, J.J., 85
Stegeman, D.F., see Rotteveel, J.J., 95
Stegeman, D.F., see Rotteveel, J.J., 245
Stein, L., see Kraus, N., 165
Sun, X. and Jen, P.H.-S.
Pinna position affects the auditory space representation in the inferior colliculus of the FM bat, *Eptesicus fuscus*, 207

Tachibana, M., Morioka, H., Machino, M., Yoshimatsu, M. and Mizukoshi, O.
Wheat germ agglutinin binding sites in the organ of Corti as revealed by lectin-gold labeling, 239
Thorne, P.R. and Nuttall, A.L.
Laser Doppler measurements of cochlear blood flow during loud sound exposure in the guinea pig, 1
Thorne, P.R., see Fechter, L.D., 37

Van De Water, T.R., see Zhou, X.-N., 183
Visco, Y.M., see Rotteveel, J.J., 85
Visco, Y.M., see Rotteveel, J.J., 95
Visco, Y.M., see Rotteveel, J.J., 245

Wang, Z.-X., Ryan, A.F. and Woolf, N.K.
Pentobarbital and ketamine alter the pattern of 2-deoxyglucose uptake in the central auditory system of the gerbil, 145
Woolf, N.K., see Wang, Z.-X., 145

Yates, G.K.
Dynamic effects in the input/output relationship of auditory nerve, 211
Yoshimatsu, M., see Tachibana, M., 239

Zhou, X.-N. and Van De Water, T.R.
HEMA hydrogels as a substratum for culture of inner ear and statoacoustic ganglion explants (*Short Communication*), 183

Hearing Research, 27 (1987) 275–278
Elsevier

Subject index

ABR
MLR, development, auditory evoked response, brainstem evoked response, 157

Acoustic trauma
laser Doppler flowmeter, cochlear blood flow, compound action potential, guinea pig, 1

Alcian blue
cochlea, stereocilia, organ of Corti, surface coat, glycoconjugate, glycocalyx, ruthenium red, 47

Amphibian papilla
hair cell, electrical tuning, 75

Amplitude modulation
inferior colliculus, single neuron, noise, 129

frequency modulation, processing channel, auditory cortex, magnetoencephalography, evoked response, man, 257

Anesthesia
2-deoxyglucose, audition, central auditory pathway, 145

Audition
anesthesia, 2-deoxyglucose, central auditory pathway, 145

Auditory brainstem response
avian auditory response, chick, far-field recording, short latency auditory response, peripheral and brainstem auditory response, 67

Auditory cortex
frequency modulation, amplitude modulation, processing channel, magnetoencephalography, evoked response, man, 257

Auditory cortical response
preterm infant, auditory maturation, evoked potential, 95

Auditory evoked potential
preterm infant, middle latency response, maturation, 245

Auditory evoked response
ABR, MLR, development, brainstem evoked response, 157

Auditory maturation
preterm infant, auditory cortical response, evoked potential, 95

Auditory space representation
bat, pinna, response center, 207

Avian auditory response
chick, far-field recording, auditory brainstem response, short latency auditory response, peripheral and brainstem auditory response, 67

Bat
pinna, response center, auditory space representation, 207

Bilateral projection
olivocochlear neurone, guinea pig, 177

Blood flow
microsphere, cochlea, 265

Brainstem evoked response
ABR, MLR, development, auditory evoked response, 157

CAP response
cochleo-saccular abnormality, endocochlear potential, stria vascularis, mouse mutant, structural/functional correlation, 11

Carbon monoxide hypoxia
cochlear microphonic, compound action potential, cochlear blood flow, ototoxicity, laser Doppler, 37

Central auditory pathway
anesthesia, 2-deoxyglucose, audition, 145

Chick
avian auditory response, far-field recording, auditory brainstem response, short latency auditory response, peripheral and brainstem auditory response, 67

Cochlea
stereocilia, organ of Corti, surface coat, glycoconjugate, glycocalyx, alcian blue, ruthenium red, 47

fluorescence, intravital microscopy, microcirculation, red blood cell, velocity, 111

velocity, red blood cell, intravital microscopy, fluorescence, stria vascularis, 121

blood flow, microsphere, 265

0378-5955/87/$03.50 © 1987 Elsevier Science Publishers B.V. (Biomedical Division)

Cochlear blood flow
laser Doppler flowmeter, acoustic trauma, compound action potential, guinea pig, 1

microsphere method, rat, 27

carbon monoxide hypoxia, cochlear microphonic, compound action potential, ototoxicity, laser Doppler, 37

Cochlear microphonic
carbon monoxide hypoxia, compound action potential, cochlear blood flow, ototoxicity, laser Doppler, 37

Cochleo-saccular abnormality
endocochlear potential, stria vascularis, mouse mutant, structural/functional correlation, CAP response, 11

Composite group average
preterm infant, cortical auditory evoked response, 85

Compound action potential
laser Doppler flowmeter, cochlear blood flow, acoustic trauma, guinea pig, 1

carbon monoxide hypoxia, cochlear microphonic, cochlear blood flow, ototoxicity, laser Doppler, 37

Cortical auditory evoked response
preterm infant, composite group average, 85

Cytoskeleton
wheat germ agglutinin, lectin-gold labeling, organ of Corti, plasma membrane, lysosome, 239

2-Deoxyglucose
anesthesia, audition, central auditory pathway, 145

Development
ABR, MLR, auditory evoked response, brainstem evoked response, 157

maturation auditory evoked potential, middle latency response, 165

Electrical tuning
hair cell, amphibian papilla, 75

Endocochlear potential
cochleo-saccular abnormality, stria vascularis, mouse mutant, structural/functional correlation, CAP response, 11

Evoked potential
preterm infant, auditory maturation, auditory cortical response, 95

Evoked response
forward masking, temporary threshold shift, inferior colliculus, temporal resolution, hearing loss, 193

frequency modulation, amplitude modulation, processing channel, auditory cortex, magnetoencephalography, man, 257

Extracellular matrix
hydrogel, inner ear, statoacoustic ganglion, 183

Far-field recording
avian auditory response, chick, auditory brainstem response, short latency auditory response, peripheral and brainstem auditory response, 67

Fluorescence
intravital microscopy, microcirculation, red blood cell, velocity, cochlea, 111

velocity, red blood cell, cochlea, intravital microscopy, stria vascularis, 121

Forward masking
evoked response, temporary threshold shift, inferior colliculus, temporal resolution, hearing loss, 193

Frequency modulation
amplitude modulation, processing channel, auditory cortex, magnetoencephalography, evoked response, man, 257

Glycocalyx
cochlea, stereocilia, organ of Corti, surface coat, glycoconjugate, alcian blue, ruthenium red, 47

Glycoconjugate
cochlea, stereocilia, organ of Corti, surface coat, glycocalyx, alcian blue, ruthenium red, 47

Guinea pig
laser Doppler flowmeter, cochlear blood flow, acoustic trauma, compound action potential, 1

olivocochlear neurone, bilateral projection, 177

Hair cell
amphibian papilla, electrical tuning, 75

Hearing loss
forward masking, evoked response, temporary threshold shift, inferior colliculus, temporal resolution, 193

Hydrogel
inner ear, statoacoustic ganglion, extracellular matrix, 183

Inferior colliculus
amplitude modulation, single neuron, noise, 129

forward masking, evoked response, temporary threshold shift, temporal resolution, hearing loss, 193

Inner ear
hydrogel, statoacoustic ganglion, extracellular matrix, 183

Intravital microscopy
fluorescence, microcirculation, red blood cell, velocity, cochlea, 111

velocity, red blood cell, cochlea, fluorescence, stria vascularis, 121

Laser Doppler
carbon monoxide hypoxia, cochlear microphonic, compound action potential, cochlear blood flow, ototoxicity, 37

Laser Doppler flowmeter
cochlear blood flow, acoustic trauma, compound action potential, guinea pig, 1

Lectin-gold labeling
wheat germ agglutinin, organ of Corti, plasma membrane, lysosome, cytoskeleton, 239

Lysosome
wheat germ agglutinin, lectin-gold labeling, organ of Corti, plasma membrane, cytoskeleton, 239

Magnetoencephalography
frequency modulation, amplitude modulation, processing channel, auditory cortex, evoked response, man, 257

Man
frequency modulation, amplitude modulation, processing channel, auditory cortex, magnetoencephalography, evoked response, 257

Maturation
preterm infant, middle latency response, auditory evoked potential, 245

Maturation auditory evoked potential
development, middle latency response, 165

Mechano-auditory association
nucleus basalis, short-latency response, pigeon, 231

Microcirculation
fluorescence, intravital microscopy, red blood cell, velocity, cochlea, 111

Microsphere
blood flow, cochlea, 265

Microsphere method
cochlear blood flow, rat, 27

Middle latency response
development, maturation auditory evoked potential, 165

preterm infant, auditory evoked potential, maturation, 245

MLR
ABR, development, auditory evoked response, brainstem evoked response, 157

Mouse mutant
cochleo-saccular abnormality, endocochlear potential, stria vascularis, structural/functional correlation, CAP response, 11

Noise
amplitude modulation, inferior colliculus, single neuron, 129

Nucleus basalis
mechano-auditory association, short-latency response, pigeon, 231

Olivocochlear neurone
bilateral projection, guinea pig, 177

Organ of Corti
cochlea, stereocilia, surface coat, glycoconjugate, glycocalyx, alcian blue, ruthenium red, 47

wheat germ agglutinin, lectin-gold labeling, plasma membrane, lysosome, cytoskeleton, 239

Ototoxicity
carbon monoxide hypoxia, cochlear microphonic, compound action potential, cochlear blood flow, laser Doppler, 37

Peripheral and brainstem auditory response
avian auditory response, chick, far-field recording, auditory brainstem response, short latency auditory response, 67

Pigeon
mechano-auditory association, nucleus basalis, short-latency response, 231

Pinna
bat, response center, auditory space representation, 207

Plasma membrane
wheat germ agglutinin, lectin-gold labeling, organ of Corti, lysosome, cytoskeleton, 239

Preterm infant
composite group average, cortical auditory evoked response, 85

auditory maturation, auditory cortical response, evoked potential, 95

middle latency response, auditory evoked potential, maturation, 245

Processing channel
frequency modulation, amplitude modulation, auditory cortex, magnetoencephalography, evoked response, man, 257

Rat
cochlear blood flow, microsphere method, 27

Red blood cell
fluorescence, intravital microscopy, microcirculation, velocity, cochlea, 111

velocity, cochlea, intravital microscopy, fluorescence, stria vascularis, 121

Response center
bat, pinna, auditory space representation, 207

Ruthenium red
cochlea, stereocilia, organ of Corti, surface coat, glycoconjugate, glycocalyx, alcian blue, 47

Short latency auditory response
avian auditory response, chick, far-field recording, auditory brainstem response, peripheral and brainstem auditory response, 67

Short-latency response
mechano-auditory association, nucleus basalis, pigeon, 231

Single neuron
amplitude modulation, inferior colliculus, noise, 129

Statoacoustic ganglion
hydrogel, inner ear, extracellular matrix, 183

Stereocilia
cochlea, organ of Corti, surface coat, glycoconjugate, glycocalyx, alcian blue, ruthenium red, 47

Stria vascularis
cochleo-saccular abnormality, endocochlear potential, mouse mutant, structural/functional correlation, CAP response, 11

velocity, red blood cell, cochlea, intravital microscopy, fluorescence, 121

Structural/functional correlation
cochleo-saccular abnormality, endocochlear potential, stria vascularis, mouse mutant, CAP response, 11

Surface coat
cochlea, stereocilia, organ of Corti, glycoconjugate, glycocalyx, alcian blue, ruthenium red, 47

Temporal resolution
forward masking, evoked response, temporary threshold shift, inferior colliculus, hearing loss, 193

Temporary threshold shift
forward masking, evoked response, inferior colliculus, temporal resolution, hearing loss, 193

Velocity
fluorescence, intravital microscopy, microcirculation, red blood cell, cochlea, 111
red blood cell, cochlea, intravital microscopy, fluorescence, stria vascularis, 121

Wheat germ agglutinin
lectin-gold labeling, organ of Corti, plasma membrane, lysosome, cytoskeleton, 239